

Osberg v. Foot Locker, Inc., et al., 07-cv-01358 (KBF) (S.D.N.Y.)

**Class's Opposition to Defendants' Motion *in Limine*
to Exclude Testimony of Christopher Maikels**

July 10, 2015

EXHIBIT E

MMVAL (10) CA95SILS ACT95

DATE 4/17/95

TIME 12:30:15

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DO DOCUMENTATION (INFORMATION)

CLIENT: WOOLWORTH CORPORATION
PROJECT: CASH BALANCE VALUATION

CODER: C MAIKELS
TKS CODE:
SPEC PROC:

DO DOCUMENTATION (NOTES)

THE WOOLWORTH RETIREMENT PLAN
CODING OF CASH BALANCE VALUATION
USING SERVICE AS A BASIS FOR CONTRIBUTION PCT.
INCLUDES ENHANCED BALANCES USING EARLY RETIREMENT FACTORS
100% LUMP SUMS
UPDATED CONTRIBUTION RATES
USES 1995 DATA
INTEGRATED BASIS WITH BREAK AT 22000

OP RUN TIME OPTIONS

VALUATION DATE	FIXED RET AGE SRVC	MAJOR: INTER: MINOR:	Y	AGG: FAS:	BCSV	Y
1 / 1 / 95	70					

IR INTEREST RATES

VALUATION RATE	INTEREST TABLE	FASB INTEREST RATE	TABLE	EMP CONTRIB RATE	INTEREST TABLE
PRE: 9 / 100		PRE: 8 17 / 100		5 /	
POST: 9 / 100		POST: /			

QX POST RETIREMENT MORTALITY TABLES

LINE	RESULT LABEL	TABLE NAME	SET- BACK	SELECT YEAR
1	QXM	GA83M		
2	QXF	GA83F		
3	QXLIM	UP84		
4	QXGATT	GATTQX		

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AX ANNUITY VALUES

LINE	RESULT LABEL	SEX	C-O-L LABEL	FORM OF PAYMENT	DEF AGE	TMP AGE	CERTAIN PERIOD	..MORTALITY PENSIONER	LABEL.. SPOUSE	SPOUSES AGE DIF	FRACTION CONTINUD	FRACTION MARRIED	MCR RATIO	PAY FRQ
1	AXM	M		LA				QXM			/	/	/	
2	AXF	F		LA				QXF			/	/	/	
3	AXWTHM	M		LA	55			QXM			/	/	/	
4	AXWTHF	F		LA	55			QXF			/	/	/	
5	AXDTHM	M		SPA	55			QXM	QXF	-4	50 / 100	70 / 100	/	
6	AXDTHF	F		SPA	55			QXF	QXM	4	50 / 100	70 / 100	/	
7	AXREAM	M		REA	65	65		QXM	QXF	-4	50 / 100	70 / 100	/	
8	AXREAF	F		REA	65	65		QXF	QXM	4	50 / 100	70 / 100	/	
9	AXJ&SM	M		J&S				QXM	QXF	-4	50 / 100	1 / 1	/	
10	AXJ&SF	F		J&S				QXF	QXM	4	50 / 100	1 / 1	/	
11	DEFJ&SM	M		J&S	55			QXM	QXF	-4	50 / 100	1 / 1	/	
12	DEFJ&SF	F		J&S	55			QXF	QXM	4	50 / 100	1 / 1	/	
13	AXUP84	B		LA	65			QXLIM			/	/	/	
14	AXGATT	B		LA	65			QXGATT			/	/	/	
15	AXLS	B		CO			1	QXM			/	/	/	A

ER EARLY RETIREMENT FACTORS

LINE	RESULT LABEL	EARLIEST AGE	METHOD 1 ERF TABLE NAME	METHOD 2 ANNUAL PERCENTAGE REDUCTIONS		METHOD 3.....ACTUARIAL EQUIVALENCE.....		
				START AGE	REDUCTION	RETIRE AGE	INTEREST RATE	MORTALITY LABEL
1	ERF1	55		1) 65	6 /		/	
				2)	/			
2	ERF2	50		1) 65	4 /		/	
				2)	/			
3	ERFLIM	20		1)	/	62	7 1 / 2	QXLIM
				2)	/			

CV CONVERSION FACTORS

LINE	RESULT LABEL	1ST AGE	METHOD 1 CONV FACTR TABLE NAME	METHOD 2.....		INTEREST RATE	..MORTALITY LABELS..		AGE DIFFERENCE
				ANNUITY LABEL ORIGINAL FORM	ANNUITY LABEL OPTIONAL FORM		PENSIONER	SPOUSE	
1	CVLS900	18		AXGATT	AXLS	9 / 100			
2	CVGATT	18		AXGATT	AXLS	8 / 100			
3	CVLIMM	18		AXLS	AXJ&SM	5 / 100	QXLIM	QXLIM	
4	CVLIMF	18		AXLS	AXJ&SF	5 / 100	QXLIM	QXLIM	

DX ACTIVE DECREMENTS

LINE	RESULT LABEL	GROUP LABEL	SEX	V/P	TYPE	BEGIN DECRMNT AT ELIGIBILT AGE LABEL	STOP DECRMNT AT ELIGIBILT AGE LABEL	TABLE NAME	SET- BACK	....LOADING..... OP FACTOR (CNST/LABEL)	...SELECT... OP TABLE NAME	GAIN & LOSS RESULT ST LABEL CD
1	DXDTHM		M	B	D			GA83M				
2	DXDTHF		F	B	D			GA83F				
3	DXWTH		B	B	W			WTH				
4	DXRET		B	B	R	ELRET		NEW				

SX SALARY SCALES

LINE	RESULT LABEL	GROUP LABEL	V/P	TABLE NAME	SET- BACK	....LOADING..... OP FACTOR (CNST/LABEL)	.....SELECT..... OP TABLE NAME	ALIGN	.....SELECT..... OP TABLE NAME	ALIGN
1	SX		B	ZERO		+ 0.05				

SV SERVICE CALCULATIONS

LINE	RESULT LABEL	GROUP LABEL	ACCRUED SERVICE	RNDG CODE	..SERVICE AGE	START YRS	RULES... DATE	..SERVICE AGE	STOP YRS	RULE... DATE	SERVICE INCR LABEL
1	VCSV		EHIRE	2	1)		/ /			/ /	
					2)		/ /				
					3)		/ /				
2	BCSV		EBCSV	2	1)		/ /			/ /	
					2)		/ /				
					3)		/ /				
3	SVCPAY				1)	1 / 1	/ 95		1 / 1	/ 96	
					2)		/ /				
					3)		/ /				

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EL ELIGIBILITY AGES

LINE	RESULT LABEL	GROUP LABELLATEST OF.....		AGE & SRVC RQMT	DATE		SERVICE LABELEARLIER OF.....		'LATER OF' OPTION	
			AGE RQMT	SRVC RQMT		RQMT	RQMT		ELIGIBILITY AGE LABELS		LABEL#1	LABEL#2
1	EL65		65	1		/	/	BCSV				
2	EL70		70			/	/					
3	ELV			5		/	/	VCSV	EL65			
4	ELER1		55	5		/	/	VCSV	EL65			
5	ELSUB			15		/	/	VCSV	ELER1			
6	ELER2		55	15		/	/	VCSV	EL65			
7	ELER3		50	15		/	/	BCSV	EL65			
8	ELRET		70			/	/		ELER1			
9	AGE55		55			/	/					
10	AGE20		20			/	/					
11	AGE30		30			/	/					
12	AGE40		40			/	/					
13	AGE50		50			/	/					
14	AGE60		60			/	/					
15	ELNOW					1	/ 1 / 1995					
16	EL10SVC			10		/	/	BCSV				
17	EL20SVC			20		/	/	BCSV				
18	EL30SVC			30		/	/	BCSV				

LM 415 LIMIT

LINE	RESULT LABEL	LAW YR	TEFRA RL	DEFERRED AGE/ AGE LABEL	C-O-L INCREASES FOR MAX BEN	COL TO TRM/ AGE	LABELS FOR MAX BEN PRORATION	..ADJ FACTOR.. LABEL FOR 100% J&S	LD CV	PROJ EMP CONTRIB LABEL	RET FACTOR LABEL FOR CURR LIMIT	..GRANDFATHERED BENEFITS..		
												VAL REC FIELD & ERF LABEL '82	ERF LABEL '86	ERF LBL FOR 1986 LIMIT
1	RETLIM	95		A: L:	/	T: A: Y	S: P: BCSV	M: F:			E: ERFLIM L:			
2	DEFLIM	95		A: 55 L:	/	T: A: Y	S: P: BCSV	M: F:			E: ERFLIM L:			
3	LMLS	95		A: L:	/	T: A: Y	S: P: BCSV	M: CVLIMM F: CVLIMF	C		E: L:			

BC BENEFIT CALCULATION

LINE	GROUP LABEL	STATEMENT	ELIGIBILITY FROM	AGE LABELS TO
1		DO SA(1)		
2		ACCR=HOURS94.GE.1000		
3		ZER=0		
4		*		
5		* NEED TO GET PV OF ABENTY FOR		
6		* INITIAL BALANCE		
7		*		
8		ER=1		
9		A=\$AGE.GE.ELER3		
10		AGROUP=A	\$AGE	\$AGE
11	AGROUP	ER=ERF2>.6	\$AGE	\$AGE
12		BALANCE=ABENTY*CVLS900/ER	\$AGE	\$AGE
13		*		
14		* NEED TO GET PV FOR MINIMUM BEN		
15		*		
16		MIN=ABENTY*CVGATT		
17		*		
18		* GET "CONTRIBUTION" STREAM		
19		*		
20		SALPROJ1=0		
21		SALPROJ2=0		
22		SALPROJ3=0		
23		SALPROJ4=0		
24	ACCR	SALPROJ1=SALPROJ		EL10SVC
25	ACCR	SALPROJ2=SALPROJ	EL10SVC	EL20SVC
26	ACCR	SALPROJ3=SALPROJ	EL20SVC	
27		BREAK=22000		
28		DO AC(1)	ELNOW	
29		DO AC(2)	ELNOW	
30		DO AC(3)	ELNOW	
31		DO AC(4)	ELNOW	
32		ANNCONT=ANNCONT1+ANNCONT2+ANNCONT3		
33		ANNC=ANNCONT	\$AGE	\$AGE
34		CASHBAL=BALANCE*(1.05)**(\$PRJTIME)+		
35		ANNC*(1.05)**(\$PRJTIME-1)*		
36		SVCPAY		
37		RETBEN=CASHBAL>MIN		

SA SALARY CALCULATIONS

LINE	PROJ SALARY RESULT LABEL	SAL SCALE LABEL	PAY/SAL HISTORY	FINAL AVG SAL RESULT LABEL	# OF YEARS IN AVERAGE	FINAL AVERAGE FREEZE AGE	SAL LIMITS METHOD	LAW YR	COL INCREASE (RATE OR TABLE)
1	SALPROJ	SX					4	95	R: / T:

AC ACCUMULATED EMPLOYEE CONTRIBUTIONS WITH INTEREST

LINE	RESULT LABEL (ACCUM)	RESULT LABEL (ANNUAL)	PROJ SAL LABEL	ACCRUED EMPL CONTRIBS WITH INTEREST	BREAKPOINTS	% BELOW BREAKPOINT 1	% ABOVE BREAK PTS 1 & 2	CONTRIBS STOP AGE	OPT INT RATE
1	BAL0	ANNCONT0	SALPROJ	C: BALANCE L:	1) 1 2)	1 / 100	1) / 2) /	18	/
2	BAL1	ANNCONT1	SALPROJ1	C: ZER L:	1) BREAK 2)	1 80 / 100	1) 2 65 / 100 2) /		/
3	BAL2	ANNCONT2	SALPROJ2	C: ZER L:	1) BREAK 2)	2 50 / 100	1) 3 60 / 100 2) /		/
4	BAL3	ANNCONT3	SALPROJ3	C: ZER L:	1) BREAK 2)	3 50 / 100	1) 4 90 / 100 2) /		/

PV PRESENT VALUES

LINE	RESULT LABEL	STUDY SET	ELIG AGE LABELS	TYPE	BENEFIT/SAL/CONT LABEL	DECREMENT LABELS	ANNUITY VALUE LABELS	ERF LABEL	CONV FACTOR LABELS	LOADING FACTR CNST/LAB APP	415 LIMIT 'Y' LABEL
1	PVDTH		FR: ELV TO: EL70	B	RETBEN	M: DXDTHM F: DXDTHF	M: AXLS F: AXLS		M: F:		Y LMLS
2	PVWTH		FR: ELV TO: ELER1	B	RETBEN	M: DXWTH F: DXWTH	M: AXLS F: AXLS		M: F:		Y LMLS
3	PVRET		FR: ELER1 TO:	B	RETBEN	M: DXRET F: DXRET	M: AXLS F: AXLS		M: F:		Y LMLS

VR VALUATION RECORD

LINE	RESULT LABEL	FIELD 1ST COLUMN	LOCATION ON RECORD LAST COLUMN	# DECIMAL PLACES	....FIELD.... TYPE	FORMAT
1	ESSN	1	9		N	
2	ESEX	11	11		A	
3	LOC	12	15		A	
4	EBCSV	16	20	3	N	
5	EBIRTH	22	27		D	1
6	EHIRE	29	34		D	1
7	PAY94	36	44	2	N	
8	PAY93	46	54	2	N	
9	ABENTY	56	63	2	N	
10	ABENLY	66	73	2	N	
11	ETY	75	76		N	
12	ELY	77	78		N	
13	ETEST	80	80		N	
14	HOURS94	82	90	2	N	
15	ENUMB	93	101		N	

TC TEST CASES

NUMBER OF TEST LIVES TO PRINT	PROCESSING OPTION (BLANK,P)	SELECTION OPTION (BLANK,E)	SOC SEC PRINTOUT (BLANK,Y)	SOC SEC EXIT AGE FOR PRTOUT	AGE RANGE OPTION (BLANK,X)	FIELDS DISPLAY OPTION		TEST CASE OUTPUT
1		E				ENTRY AGE FUNDING FASB DISCLOSURE	TRADITIONAL UNIT CREDIT X PROJECTED UNIT CREDIT	S

CONTROL TOTALS

SCREEN	LINES	TOTAL
DO	1	-6194.
DO	8	61838.
OP	1	4953.
IR	1	13169.
QX	4	48808.
AX	15	1043114.
ER	3	62574.
CV	4	81683.
DX	4	10796.
SX	1	-5764.
SV	3	69811.
EL	18	1351441.
LM	3	77403.
BC	37	-17572466.
SA	1	5171.
AC	4	372042.
PV	3	101891.
VR	15	1703879.
TC	1	962.
TOTAL	127	-12574889.

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ERROR MESSAGES

SCREEN	LINE	W/E	MESSAGE
SX	1	(W)	SALARY SCALE VALUES ARE ALL ZERO.
SV	3	(W)	ACCRUED SERVICE LABEL IS MISSING.
AC	2	(W)	PROJECTED SALARY LABEL IS NOT DEFINED ON 'SA' SCREEN.
AC	3	(W)	PROJECTED SALARY LABEL IS NOT DEFINED ON 'SA' SCREEN.
AC	4	(W)	PROJECTED SALARY LABEL IS NOT DEFINED ON 'SA' SCREEN.
AC	1	(W)	CURRENT ACCRUED CONTRIBS LABEL IS NOT DEFINED ON 'VR' SCREEN
AC	2	(W)	CURRENT ACCRUED CONTRIBS LABEL IS NOT DEFINED ON 'VR' SCREEN
AC	3	(W)	CURRENT ACCRUED CONTRIBS LABEL IS NOT DEFINED ON 'VR' SCREEN
AC	4	(W)	CURRENT ACCRUED CONTRIBS LABEL IS NOT DEFINED ON 'VR' SCREEN
AC	1	(W)	PERCENT ABOVE BREAKPOINT ONE IS MISSING.

NUMBER OF WARNINGS FOUND = 10

NUMBER OF ERRORS FOUND = 0

POST RETIREMENT MORTALITY RATES

TABLE NAME: GA83M SETBACK: 0

AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX
1	.000342	2	.000342	3	.000342	4	.000342	5	.000342	6	.000318	7	.000302	8	.000294
9	.000292	10	.000293	11	.000298	12	.000304	13	.000310	14	.000317	15	.000325	16	.000333
17	.000343	18	.000353	19	.000365	20	.000377	21	.000392	22	.000408	23	.000424	24	.000444
25	.000464	26	.000488	27	.000513	28	.000542	29	.000572	30	.000607	31	.000645	32	.000687
33	.000734	34	.000785	35	.000860	36	.000907	37	.000966	38	.001039	39	.001128	40	.001238
41	.001370	42	.001527	43	.001715	44	.001932	45	.002183	46	.002471	47	.002790	48	.003138
49	.003513	50	.003909	51	.004324	52	.004755	53	.005200	54	.005660	55	.006131	56	.006618
57	.007139	58	.007719	59	.008384	60	.009158	61	.010064	62	.011133	63	.012391	64	.013868
65	.015592	66	.017579	67	.019804	68	.022229	69	.024817	70	.027530	71	.030354	72	.033370
73	.036680	74	.040388	75	.044597	76	.049388	77	.054758	78	.060678	79	.067125	80	.074070
81	.081484	82	.089320	83	.097525	84	.106047	85	.114836	86	.124170	87	.133870	88	.144073
89	.154859	90	.166307	91	.178214	92	.190460	93	.203007	94	.217904	95	.234086	96	.248436
97	.263954	98	.280803	99	.299154	100	.319185	101	.341086	102	.365052	103	.393102	104	.427255
105	.469531	106	.521945	107	.586518	108	.665268	109	.760215	110	1.000000	111	1.000000	112	1.000000
113	1.000000	114	1.000000	115	1.000000	116	1.000000	117	1.000000	118	1.000000	119	1.000000	120	1.000000

TABLE NAME: GA83F SETBACK: 0

AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX
1	.000171	2	.000171	3	.000171	4	.000171	5	.000171	6	.000140	7	.000118	8	.000104
9	.000097	10	.000096	11	.000104	12	.000113	13	.000122	14	.000131	15	.000140	16	.000149
17	.000159	18	.000168	19	.000179	20	.000189	21	.000201	22	.000212	23	.000225	24	.000239
25	.000253	26	.000268	27	.000284	28	.000302	29	.000320	30	.000342	31	.000364	32	.000388
33	.000414	34	.000443	35	.000476	36	.000502	37	.000536	38	.000573	39	.000617	40	.000665
41	.000716	42	.000775	43	.000842	44	.000919	45	.001010	46	.001117	47	.001237	48	.001366
49	.001505	50	.001647	51	.001793	52	.001949	53	.002120	54	.002315	55	.002541	56	.002803
57	.003103	58	.003443	59	.003821	60	.004241	61	.004703	62	.005210	63	.005769	64	.006386
65	.007064	66	.007817	67	.008681	68	.009702	69	.010922	70	.012385	71	.014128	72	.016160
73	.018481	74	.021092	75	.023992	76	.027185	77	.030672	78	.034459	79	.038549	80	.042945
81	.047655	82	.052691	83	.058071	84	.063807	85	.069918	86	.076570	87	.083870	88	.091935
89	.101354	90	.111750	91	.123076	92	.135630	93	.149577	94	.165103	95	.182419	96	.201757
97	.222044	98	.243899	99	.268185	100	.295187	101	.325225	102	.358897	103	.395843	104	.438360
105	.487816	106	.545886	107	.614309	108	.694885	109	.789474	110	1.000000	111	1.000000	112	1.000000
113	1.000000	114	1.000000	115	1.000000	116	1.000000	117	1.000000	118	1.000000	119	1.000000	120	1.000000

TABLE NAME: UP84 SETBACK: 0

AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX
1	.001453	2	.001453	3	.001453	4	.001453	5	.001453	6	.001453	7	.001453	8	.001453
9	.001453	10	.001453	11	.001453	12	.001453	13	.001453	14	.001453	15	.001453	16	.001437
17	.001414	18	.001385	19	.001351	20	.001311	21	.001267	22	.001219	23	.001167	24	.001149
25	.001129	26	.001107	27	.001083	28	.001058	29	.001083	30	.001111	31	.001141	32	.001173
33	.001208	34	.001297	35	.001398	36	.001513	37	.001643	38	.001792	39	.001948	40	.002125
41	.002327	42	.002556	43	.002818	44	.003095	45	.003410	46	.003769	47	.004180	48	.004635
49	.005103	50	.005616	51	.006196	52	.006853	53	.007543	54	.008278	55	.009033	56	.009875
57	.010814	58	.011863	59	.012952	60	.014162	61	.015509	62	.017010	63	.018685	64	.020517
65	.022562	66	.024847	67	.027232	68	.029634	69	.032073	70	.034743	71	.037667	72	.040871
73	.044504	74	.048504	75	.052913	76	.057775	77	.063142	78	.068628	79	.074648	80	.081256
81	.088518	82	.096218	83	.104310	84	.112816	85	.122079	86	.132174	87	.143179	88	.155147
89	.168208	90	.182461	91	.198030	92	.215035	93	.232983	94	.252545	95	.273878	96	.297152
97	.322553	98	.349505	99	.378865	100	.410875	101	.445768	102	.483830	103	.524301	104	.568365
105	.616382	106	.668696	107	.725745	108	.786495	109	.852659	110	.924666	111	1.000000	112	1.000000
113	1.000000	114	1.000000	115	1.000000	116	1.000000	117	1.000000	118	1.000000	119	1.000000	120	1.000000

POST RETIREMENT MORTALITY RATES

TABLE NAME: GATTQX SETBACK: 0

AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX
1	.000000	2	.000000	3	.000000	4	.000000	5	.000257	6	.000229	7	.000210	8	.000199
9	.000195	10	.000195	11	.000201	12	.000209	13	.000216	14	.000224	15	.000233	16	.000251
17	.000251	18	.000261	19	.000272	20	.000283	21	.000297	22	.000310	23	.000325	24	.000341
25	.000359	26	.000378	27	.000398	28	.000422	29	.000446	30	.000475	31	.000505	32	.000538
33	.000574	34	.000614	35	.000668	36	.000705	37	.000751	38	.000806	39	.000873	40	.000952
41	.001043	42	.001151	43	.001278	44	.001426	45	.001597	46	.001794	47	.002014	48	.002252
49	.002509	50	.002778	51	.003059	52	.003352	53	.003659	54	.003988	55	.004336	56	.004711
57	.005121	58	.005581	59	.006103	60	.006700	61	.007383	62	.008172	63	.009080	64	.010127
65	.011328	66	.012698	67	.014242	68	.015966	69	.017869	70	.019958	71	.022241	72	.024765
73	.027581	74	.030740	75	.034295	76	.038286	77	.042715	78	.047569	79	.052837	80	.058508
81	.064570	82	.071006	83	.077798	84	.084927	85	.092377	86	.100370	87	.108870	88	.118004
89	.128107	90	.139029	91	.150645	92	.163045	93	.176292	94	.191504	95	.208253	96	.225097
97	.242999	98	.262351	99	.283670	100	.307186	101	.333156	102	.361975	103	.394472	104	.432808
105	.478674	106	.533916	107	.600414	108	.680076	109	.774845	110	1.000000	111	1.000000	112	1.000000
113	1.000000	114	1.000000	115	1.000000	116	1.000000	117	1.000000	118	1.000000	119	1.000000	120	1.000000

TABLE VALUES

SCREEN: DX		LINE: 1		TABLE NAME: GA83M				SETBACK: 0			
AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE
16	.000333	17	.000343	18	.000353	19	.000365	20	.000377	21	.000392
22	.000408	23	.000424	24	.000444	25	.000464	26	.000488	27	.000513
28	.000542	29	.000572	30	.000607	31	.000645	32	.000687	33	.000734
34	.000785	35	.000860	36	.000907	37	.000966	38	.001039	39	.001128
40	.001238	41	.001370	42	.001527	43	.001715	44	.001932	45	.002183
46	.002471	47	.002790	48	.003138	49	.003513	50	.003909	51	.004324
52	.004755	53	.005200	54	.005660	55	.006131	56	.006618	57	.007139
58	.007719	59	.008384	60	.009158	61	.010064	62	.011133	63	.012391
64	.013868	65	.015592	66	.017579	67	.019804	68	.022229	69	.024817
70	.027530	71	.030354	72	.033370	73	.036680	74	.040388	75	.044597

SCREEN: DX		LINE: 2		TABLE NAME: GA83F				SETBACK: 0			
AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE
16	.000149	17	.000159	18	.000168	19	.000179	20	.000189	21	.000201
22	.000212	23	.000225	24	.000239	25	.000253	26	.000268	27	.000284
28	.000302	29	.000320	30	.000342	31	.000364	32	.000388	33	.000414
34	.000443	35	.000476	36	.000502	37	.000536	38	.000573	39	.000617
40	.000665	41	.000716	42	.000775	43	.000842	44	.000919	45	.001010
46	.001117	47	.001237	48	.001366	49	.001505	50	.001647	51	.001793
52	.001949	53	.002120	54	.002315	55	.002541	56	.002803	57	.003103
58	.003443	59	.003821	60	.004241	61	.004703	62	.005210	63	.005769
64	.006386	65	.007064	66	.007817	67	.008681	68	.009702	69	.010922
70	.012385	71	.014128	72	.016160	73	.018481	74	.021092	75	.023992

SCREEN: DX		LINE: 3		TABLE NAME: WTH				SETBACK: 0			
AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE
16	.000000	17	.000000	18	.000000	19	.000000	20	.180000	21	.174000
22	.169000	23	.163000	24	.158000	25	.152000	26	.146000	27	.141000
28	.135000	29	.129000	30	.124000	31	.118000	32	.113000	33	.107000
34	.101000	35	.096000	36	.090000	37	.084000	38	.079000	39	.073000
40	.068000	41	.062000	42	.058000	43	.067000	44	.070000	45	.072000
46	.072000	47	.067000	48	.055000	49	.043000	50	.036000	51	.032000
52	.030000	53	.030000	54	.030000	55	.000000	56	.000000	57	.000000
58	.000000	59	.000000	60	.000000	61	.000000	62	.000000	63	.000000
64	.000000	65	.000000	66	.000000	67	.000000	68	.000000	69	.000000
70	.000000	71	.000000	72	.000000	73	.000000	74	.000000	75	.000000

TABLE VALUES

SCREEN: DX		LINE: 4	TABLE NAME: NEW				SETBACK: 0				
AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE
16	.000000	17	.000000	18	.000000	19	.000000	20	.000000	21	.000000
22	.000000	23	.000000	24	.000000	25	.000000	26	.000000	27	.000000
28	.000000	29	.000000	30	.000000	31	.000000	32	.000000	33	.000000
34	.000000	35	.000000	36	.000000	37	.000000	38	.000000	39	.000000
40	.000000	41	.000000	42	.000000	43	.000000	44	.000000	45	.000000
46	.000000	47	.000000	48	.000000	49	.000000	50	.000000	51	.000000
52	.000000	53	.000000	54	.000000	55	.040000	56	.040000	57	.030000
58	.030000	59	.040000	60	.060000	61	.080000	62	.210000	63	.130000
64	.170000	65	.300000	66	.220000	67	.210000	68	.220000	69	.300000
70	1.000000	71	1.000000	72	1.000000	73	1.000000	74	1.000000	75	1.000000

MMVAL (10) CA95SILS ACT95 VALUATION YEAR 1995 INTEREST RATE 9.00 % DATE 4/17/95 TIME 12:30:15 PAGE 13

SHORT SAMPLE -- ACTIVE MEMBER

VALUATION RECORD

ESSN 1,839
 ESEX F
 LOC FWC
 EBCSV 2.421
 EBIRTH REDACTED/60
 EHIRE 06/21/91
 PAY94 12,025.06
 PAY93 11,001.61
 ABENTY 307.14
 ABENLY 175.70
 ETY 2
 ELY 2
 ETEST 1
 HOURS94 1,712.89
 ENUMB 18

CALCULATED AGES (EXACT AND NEAREST)

CURRENT AGE 34.620 35
 AGE AT HIRE 31.092 31
 RETIREMENT AGE 70.037 70
 MEMBERSHIP AGE 31.092 31

GENERAL STATISTICS

SERVICE 3.53 MEMBERSHIP -23,571.29
 \$TOTAL1 0.00 \$TOTAL2 0.00
 \$TOTAL3 0.00 \$TOTAL4 0.00
 \$TOTAL5 0.00

ACCRUED LIABILITIES

PVDTH PVWTH PVRET]
 PVTOT-1 PVTOT-2 PVTOT-3 PVTOT-4 PVTOT-5]
 86 2,923 944]
 3,953]

CURRENT SERVICE COST

PVDTH PVWTH PVRET]
 PVTOT-1 PVTOT-2 PVTOT-3 PVTOT-4 PVTOT-5]
 6 632 0]
 638]

AGGR

ELIGIBILITY AGES

EL65 65
 EL70 70
 ELV 37
 ELER1 55
 ELSUB 47
 ELER2 55
 ELER3 50
 ELRET 55
 AGE55 55
 AGE20 20
 AGE30 30
 AGE40 40
 AGE50 50
 AGE60 60
 ELNOW 35
 EL10SVC 43
 EL20SVC 53
 EL30SVC 63
 \$AGE 35
 \$HIREAGE 31
 \$MEMBAGE 31
 \$SSNRA 67

TUC

79 2,291 944
 3,314

]]]
 6 632 0
 638

MMVAL (10) CA95SILS ACT95 VALUATION YEAR 1995 INTEREST RATE 9.00 % DATE 4/17/95 TIME 12:30:15 PAGE 14

NUMBER OF ACTIVE RECORDS READ = 6463
NUMBER OF RECORDS DROPPED = 0
NUMBER OF SURVIVOR ACTIVES = 6369
NUMBER OF NEW ENTRANTS = 94
NUMBER OF LAYOFFS = 0
NUMBER OF TERMINATIONS PROCESSED = 0

WILLIAM M. MERCER VALUATION SYSTEM
ACTIVE EMPLOYEE RESULTS

AGGREGATE COST METHOD - PROJECTED PRESENT VALUES

TOTAL OF ALL EMPLOYEES	SURVIVORS	NEW ENTRANTS	LAYOFFS	TOTAL
	-----	-----	-----	-----
STATISTICS				
NUMBER OF EMPLOYEES	24,487	293	0	24,780
AVERAGE AGE	36.70	40.10	0.00	36.74
AVERAGE YEARS OF SERVICE	8.53	8.86	0.00	8.54
AVERAGE SALARY	23,757	16,089	0	23,666
TOTAL SALARY	581,736,575	4,714,172	0	586,450,747
TOTAL SALARY < LIMIT FOR VALUATION YEAR	578,644,822	4,714,172	0	583,358,994
EMPLOYEES UNDER FIXED RETIREMENT AGE				
NUMBER OF EMPLOYEES	24,387	288	0	24,675
TOTAL SALARY	580,675,284	4,688,271	0	585,363,555
TOTAL SALARY < LIMIT FOR VALUATION YEAR	577,583,532	4,688,271	0	582,271,802
PRESENT VALUES OF BENEFITS				
DEATH BENEFIT (PVDTH)	9,128,130	37,946	0	9,166,075
VESTED WITHDRAWAL BENEFIT (PVWTH)	20,967,263	148,289	0	21,115,552
RETIREMENT BENEFIT (PVRET)	115,503,193	450,442	0	115,953,635
	145,598,586	636,676	0	146,235,262

WILLIAM M. MERCER VALUATION SYSTEM
ACTIVE EMPLOYEE RESULTS

TRADITIONAL UNIT CREDIT COST METHOD

TOTAL OF ALL EMPLOYEES		SURVIVORS	NEW ENTRANTS	LAYOFFS	TOTAL
		-----	-----	-----	-----
PRESENT VALUES OF BENEFITS - AL					
DEATH BENEFIT	(PVDTH)	9,022,587	37,032	0	9,059,618
VESTED WITHDRAWAL BENEFIT	(PVWTH)	19,463,388	134,914	0	19,598,302
RETIREMENT BENEFIT	(PVRET)	114,320,621	442,422	0	114,763,043
		142,806,596	614,368	0	143,420,963
PRESENT VALUES OF BENEFITS - NC					
DEATH BENEFIT	(PVDTH)	105,543	914	0	106,457
VESTED WITHDRAWAL BENEFIT	(PVWTH)	1,503,876	13,375	0	1,517,250
RETIREMENT BENEFIT	(PVRET)	1,182,572	8,020	0	1,190,592
		2,791,990	22,308	0	2,814,299

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DO DOCUMENTATION (INFORMATION)

CLIENT: WOOLWORTH CORPORATION
PROJECT: CASH BALANCE VALUATION

CODER: C MAIKELS
TKS CODE:
SPEC PROC:

DO DOCUMENTATION (NOTES)

THE WOOLWORTH RETIREMENT PLAN
CODING OF CASH BALANCE VALUATION
USING SERVICE AS A BASIS FOR CONTRIBUTION PCT.
INCLUDES ENHANCED BALANCES USING EARLY RETIREMENT FACTORS
100% LUMP SUMS
UPDATED CONTRIBUTION RATES
USES 1995 DATA
INTEGRATED BASIS WITH BREAK AT 22000
CHANGED TO GET ONGOING NORMAL COST

OP RUN TIME OPTIONS

VALUATION DATE	FIXED RET AGE SRVC	SUBTOTAL	BREAKS	AGG AGE	UNIT	UNIT 87	...FUNDING METHODS... ENT TRAD PROJ FAS OUT- PUT CICA CALC	..CANADIAN... PUC- CALC	PAY- OUT PROJ	C-O-L METHOD (I,E)	PRORATE SERVICE LABEL	ABO GAIN/ VBO LOSS	LAST YR'S NORM COST FOR G&L	PV'S BASED ON LAST YR'S 415 & SAL LIM
1 / 1 / 95	70	MAJOR: INTER: MINOR:			Y				AGG: FAS:		BCSV	Y		

IR INTEREST RATES

VALUATION RATE	INTEREST TABLE	FASB INTEREST RATE	TABLE	EMP CONTRIB RATE	INTEREST TABLE
PRE: 9 / 100		PRE: 8 17 / 100		5 /	
POST: 9 / 100		POST: /			

QX POST RETIREMENT MORTALITY TABLES

LINE	RESULT LABEL	TABLE NAME	SET- BACK	SELECT YEAR
1	QXM	GA83M		
2	QXF	GA83F		
3	QXLIM	UP84		
4	QXGATT	GATTQX		

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AX ANNUITY VALUES

LINE	RESULT LABEL	SEX	C-O-L LABEL	FORM OF PAYMENT	DEF AGE	TMP AGE	CERTAIN PERIOD	..MORTALITY PENSIONER	LABEL.. SPOUSE	SPOUSES AGE DIF	FRACTION CONTINUD	FRACTION MARRIED	MCR RATIO	PAY FRQ
1	AXM	M		LA				QXM			/	/	/	
2	AXF	F		LA				QXF			/	/	/	
3	AXWTHM	M		LA	55			QXM			/	/	/	
4	AXWTHF	F		LA	55			QXF			/	/	/	
5	AXDTHM	M		SPA	55			QXM	QXF	-4	50 / 100	70 / 100	/	
6	AXDTHF	F		SPA	55			QXF	QXM	4	50 / 100	70 / 100	/	
7	AXREAM	M		REA	65	65		QXM	QXF	-4	50 / 100	70 / 100	/	
8	AXREAF	F		REA	65	65		QXF	QXM	4	50 / 100	70 / 100	/	
9	AXJ&SM	M		J&S				QXM	QXF	-4	50 / 100	1 / 1	/	
10	AXJ&SF	F		J&S				QXF	QXM	4	50 / 100	1 / 1	/	
11	DEFJ&SM	M		J&S	55			QXM	QXF	-4	50 / 100	1 / 1	/	
12	DEFJ&SF	F		J&S	55			QXF	QXM	4	50 / 100	1 / 1	/	
13	AXUP84	B		LA	65			QXLIM			/	/	/	
14	AXGATT	B		LA	65			QXGATT			/	/	/	
15	AXLS	B		CO			1	QXM			/	/	/	A

ER EARLY RETIREMENT FACTORS

LINE	RESULT LABEL	EARLIEST AGE	METHOD 1 ERF TABLE NAME	METHOD 2 ANNUAL PERCENTAGE REDUCTIONS		METHOD 3.....ACTUARIAL EQUIVALENCE.....		
				START AGE	REDUCTION	RETIRE AGE	INTEREST RATE	MORTALITY LABEL
1	ERF1	55		1) 65	6 /		/	
				2)	/			
2	ERF2	50		1) 65	4 /		/	
				2)	/			
3	ERFLIM	20		1)	/	62	7 1 / 2	QXLIM
				2)	/			

CV CONVERSION FACTORS

LINE	RESULT LABEL	1ST AGE	METHOD 1 CONV FACTR TABLE NAME	METHOD 2.....		INTEREST RATE	..MORTALITY LABELS..		AGE DIFFERENCE
				ANNUITY LABEL ORIGINAL FORM	ANNUITY LABEL OPTIONAL FORM		PENSIONER	SPOUSE	
1	CVLS900	18		AXGATT	AXLS	9 / 100			
2	CVGATT	18		AXGATT	AXLS	8 / 100			
3	CVLIMM	18		AXLS	AXJ&SM	5 / 100	QXLIM	QXLIM	
4	CVLIMF	18		AXLS	AXJ&SF	5 / 100	QXLIM	QXLIM	

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DX ACTIVE DECREMENTS

LINE	RESULT LABEL	GROUP LABEL	SEX	V/P	TYPE	BEGIN DECRMNT AT ELIGIBLTY AGE LABEL	STOP DECRMNT AT ELIGIBLTY AGE LABEL	TABLE NAME	SET- BACKLOADING..... OP FACTOR (CNST/LABEL)	...SELECT... OP TABLE NAME	GAIN & LOSS RESULT LABEL ST CD
1	DXDTHM		M	B	D			GA83M				
2	DXDTHF		F	B	D			GA83F				
3	DXWTH		B	B	W			WTH				
4	DXRET		B	B	R	ELRET		NEW				

SX SALARY SCALES

LINE	RESULT LABEL	GROUP LABEL	V/P	TABLE NAME	SET- BACK	.....LOADING..... OP FACTOR (CNST/LABEL)	.....SELECT..... OP TABLE NAME	ALIGN	.....SELECT..... OP TABLE NAME	ALIGN
1	SX		B	ZERO		+ 0.05				

SV SERVICE CALCULATIONS

LINE	RESULT LABEL	GROUP LABEL	ACCRUED SERVICE	RNDG CODE	..SERVICE AGE	START YRS	RULES... DATE	..SERVICE AGE	STOP YRS	RULE... DATE	SERVICE INCR LABEL
1	VCSV		EHIRE	2	1)		/ /			/ /	
					2)		/ /				
					3)		/ /				
2	BCSV		EBCSV	2	1)		/ /			/ /	
					2)		/ /				
					3)		/ /				
3	SVCPAY				1)	1 / 1	/ 95		1 / 1	/ 96	
					2)		/ /				
					3)		/ /				

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EL ELIGIBILITY AGES

LINE	RESULT LABEL	GROUP LABELLATEST OF.....		AGE & SRVC RQMT	DATE		SERVICE LABELEARLIER OF.....		'LATER OF' OPTION	
			AGE RQMT	SRVC RQMT		RQMT	RQMT		ELIGIBILITY AGE LABELS		LABEL#1	LABEL#2
1	EL65		65	1		/	/	BCSV				
2	EL70		70			/	/					
3	ELV			5		/	/	VCSV	EL65			
4	ELER1		55	5		/	/	VCSV	EL65			
5	ELSUB			15		/	/	VCSV	ELER1			
6	ELER2		55	15		/	/	VCSV	EL65			
7	ELER3		50	15		/	/	BCSV	EL65			
8	ELRET		70			/	/		ELER1			
9	AGE55		55			/	/					
10	AGE20		20			/	/					
11	AGE30		30			/	/					
12	AGE40		40			/	/					
13	AGE50		50			/	/					
14	AGE60		60			/	/					
15	ELNOW					1	/ 1 / 1995					
16	EL10SVC			10		/	/	BCSV				
17	EL20SVC			20		/	/	BCSV				
18	EL30SVC			30		/	/	BCSV				

LM 415 LIMIT

LINE	RESULT LABEL	LAW YR	TEFRA RL	DEFERRED AGE/ AGE LABEL	C-O-L INCREASES FOR MAX BEN	COL TO TRM/ AGE	LABELS FOR MAX BEN PRORATION	..ADJ FACTOR.. LABEL FOR 100% J&S	LD CV	PROJ EMP CONTRIB LABEL	RET FACTOR LABEL FOR CURR LIMIT	..GRANDFATHERED BENEFITS..		
												VAL REC FIELD '82	ERF LABEL '86	ERF LBL FOR 1986 LIMIT
1	RETLIM	95		A:	/	T:	S:	M:			E: ERFLIM			
				L:		A: Y	P: BCSV	F:			L:			
2	DEFLIM	95		A: 55	/	T:	S:	M:			E: ERFLIM			
				L:		A: Y	P: BCSV	F:			L:			
3	LMLS	95		A:	/	T:	S:	M: CVLIMM	C		E:			
				L:		A: Y	P: BCSV	F: CVLIMF			L:			

BC BENEFIT CALCULATION

LINE	GROUP LABEL	STATEMENT	ELIGIBILITY FROM	AGE LABELS TO
1		DO SA(1)		
2		ACCR=HOURS94.GE.1000		
3		ZER=0		
4		*		
5		* NEED TO GET PV OF ABENTY FOR		
6		* INITIAL BALANCE		
7		*		
8		ER=1		
9		A=\$AGE.GE.ELER3		
10		AGROUP=A	\$AGE	\$AGE
11	AGROUP	ER=ERF2>.6	\$AGE	\$AGE
12		BALANCE=ABENTY*CVLS900/ER	\$AGE	\$AGE
13		*		
14		* NEED TO GET PV FOR MINIMUM BEN		
15		*		
16		MIN=ABENTY*CVGATT		
17		*		
18		* GET "CONTRIBUTION" STREAM		
19		*		
20		SALPROJ1=0		
21		SALPROJ2=0		
22		SALPROJ3=0		
23		SALPROJ4=0		
24	ACCR	SALPROJ1=SALPROJ		EL10SVC
25	ACCR	SALPROJ2=SALPROJ	EL10SVC	EL20SVC
26	ACCR	SALPROJ3=SALPROJ	EL20SVC	
27		BREAK=22000		
28		DO AC(1)	ELNOW	
29		DO AC(2)	ELNOW	
30		DO AC(3)	ELNOW	
31		DO AC(4)	ELNOW	
32		ANNCONT=ANNCONT1+ANNCONT2+ANNCONT3		
33		ANNC=ANNCONT	\$AGE	\$AGE
34		CASHBAL=BALANCE*(1.05)**(\$PRJTIME)+		
35		ANNC*(1.05)**(\$PRJTIME-1)*		
36		SVCPAY		
37		RETBEN=CASHBAL		

SA SALARY CALCULATIONS

LINE	PROJ SALARY RESULT LABEL	SAL SCALE LABEL	PAY/SAL HISTORY	FINAL AVG SAL RESULT LABEL	# OF YEARS IN AVERAGE	FINAL AVERAGE FREEZE AGE	SAL LIMITS METHOD	LAW YR	COL INCREASE (RATE OR TABLE)
1	SALPROJ	SX					4	95	R: / T:

AC ACCUMULATED EMPLOYEE CONTRIBUTIONS WITH INTEREST

LINE	RESULT LABEL (ACCUM)	RESULT LABEL (ANNUAL)	PROJ SAL LABEL	ACCRUED EMPL CONTRIBS WITH INTEREST	BREAKPOINTS	% BELOW BREAKPOINT 1	% ABOVE BREAK PTS 1 & 2	CONTRIBS STOP AGE	OPT INT RATE
1	BAL0	ANNCONTO	SALPROJ	C: BALANCE L:	1) 1 2)	1 / 100	1) / 2) /	18	/
2	BAL1	ANNCONT1	SALPROJ1	C: ZER L:	1) BREAK 2)	1 80 / 100	1) 2 65 / 100 2) /		/
3	BAL2	ANNCONT2	SALPROJ2	C: ZER L:	1) BREAK 2)	2 50 / 100	1) 3 60 / 100 2) /		/
4	BAL3	ANNCONT3	SALPROJ3	C: ZER L:	1) BREAK 2)	3 50 / 100	1) 4 90 / 100 2) /		/

PV PRESENT VALUES

LINE	RESULT LABEL	STUDY SET	ELIG AGE LABELS	TYPE	BENEFIT/SAL/CONT LABEL	DECREMENT LABELS	ANNUITY VALUE LABELS	ERF LABEL	CONV FACTOR LABELS	LOADING FACTR CNST/LAB APP	415 LIMIT 'Y' LABEL
1	PVDTH		FR: ELV TO: EL70	B	RETBEN	M: DXDTHM F: DXDTHF	M: AXLS F: AXLS		M: F:		Y LMLS
2	PVWTH		FR: ELV TO: ELER1	B	RETBEN	M: DXWTH F: DXWTH	M: AXLS F: AXLS		M: F:		Y LMLS
3	PVRET		FR: ELER1 TO:	B	RETBEN	M: DXRET F: DXRET	M: AXLS F: AXLS		M: F:		Y LMLS

VR VALUATION RECORD

LINE	RESULT LABEL	FIELD LOCATION 1ST COLUMN	ON RECORD LAST COLUMN	# DECIMAL PLACES	....FIELD.... TYPE	FORMAT
1	ESSN	1	9		N	
2	ESEX	11	11		A	
3	LOC	12	15		A	
4	EBCSV	16	20	3	N	
5	EBIRTH	22	27		D	1
6	EHIRE	29	34		D	1
7	PAY94	36	44	2	N	
8	PAY93	46	54	2	N	
9	ABENTY	56	63	2	N	
10	ABENLY	66	73	2	N	
11	ETY	75	76		N	
12	ELY	77	78		N	
13	ETEST	80	80		N	
14	HOURS94	82	90	2	N	
15	ENUMB	93	101		N	

TC TEST CASES

NUMBER OF TEST LIVES TO PRINT	PROCESSING OPTION (BLANK,P)	SELECTION OPTION (BLANK,E)	SOC SEC PRINTOUT (BLANK,Y)	SOC SEC EXIT AGE FOR PRTOU	AGE RANGE OPTION (BLANK,X)	FIELDS DISPLAY OPTION	TEST CASE OUTPUT
1		E				ENTRY AGE FUNDING FASB DISCLOSURE X	TRADITIONAL UNIT CREDIT X PROJECTED UNIT CREDIT

CONTROL TOTALS

SCREEN	LINES	TOTAL
DO	1	-6194.
DO	9	15778.
OP	1	4953.
IR	1	13169.
QX	4	48808.
AX	15	1043114.
ER	3	62574.
CV	4	81683.
DX	4	10796.
SX	1	-5764.
SV	3	69811.
EL	18	1351441.
LM	3	77403.
BC	37	-17256769.
SA	1	5171.
AC	4	372042.
PV	3	101891.
VR	15	1703879.
TC	1	962.
TOTAL	128	-12305252.

ERROR MESSAGES

```
-----  
SCREEN LINE W/E      MESSAGE  
-----  
SX      1 (W)  SALARY SCALE VALUES ARE ALL ZERO.  
SV      3 (W)  ACCRUED SERVICE LABEL IS MISSING.  
AC      2 (W)  PROJECTED SALARY LABEL IS NOT DEFINED ON 'SA' SCREEN.  
AC      3 (W)  PROJECTED SALARY LABEL IS NOT DEFINED ON 'SA' SCREEN.  
AC      4 (W)  PROJECTED SALARY LABEL IS NOT DEFINED ON 'SA' SCREEN.  
AC      1 (W)  CURRENT ACCRUED CONTRIBS LABEL IS NOT DEFINED ON 'VR' SCREEN  
AC      2 (W)  CURRENT ACCRUED CONTRIBS LABEL IS NOT DEFINED ON 'VR' SCREEN  
AC      3 (W)  CURRENT ACCRUED CONTRIBS LABEL IS NOT DEFINED ON 'VR' SCREEN  
AC      4 (W)  CURRENT ACCRUED CONTRIBS LABEL IS NOT DEFINED ON 'VR' SCREEN  
AC      1 (W)  PERCENT ABOVE BREAKPOINT ONE IS MISSING.
```

NUMBER OF WARNINGS FOUND = 10

NUMBER OF ERRORS FOUND = 0

POST RETIREMENT MORTALITY RATES

TABLE NAME: GA83M SETBACK: 0

AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX
1	.000342	2	.000342	3	.000342	4	.000342	5	.000342	6	.000318	7	.000302	8	.000294
9	.000292	10	.000293	11	.000298	12	.000304	13	.000310	14	.000317	15	.000325	16	.000333
17	.000343	18	.000353	19	.000365	20	.000377	21	.000392	22	.000408	23	.000424	24	.000444
25	.000464	26	.000488	27	.000513	28	.000542	29	.000572	30	.000607	31	.000645	32	.000687
33	.000734	34	.000785	35	.000860	36	.000907	37	.000966	38	.001039	39	.001128	40	.001238
41	.001370	42	.001527	43	.001715	44	.001932	45	.002183	46	.002471	47	.002790	48	.003138
49	.003513	50	.003909	51	.004324	52	.004755	53	.005200	54	.005660	55	.006131	56	.006618
57	.007139	58	.007719	59	.008384	60	.009158	61	.010064	62	.011133	63	.012391	64	.013868
65	.015592	66	.017579	67	.019804	68	.022229	69	.024817	70	.027530	71	.030354	72	.033370
73	.036680	74	.040388	75	.044597	76	.049388	77	.054758	78	.060678	79	.067125	80	.074070
81	.081484	82	.089320	83	.097525	84	.106047	85	.114836	86	.124170	87	.133870	88	.144073
89	.154859	90	.166307	91	.178214	92	.190460	93	.203007	94	.217904	95	.234086	96	.248436
97	.263954	98	.280803	99	.299154	100	.319185	101	.341086	102	.365052	103	.393102	104	.427255
105	.469531	106	.521945	107	.586518	108	.665268	109	.760215	110	1.000000	111	1.000000	112	1.000000
113	1.000000	114	1.000000	115	1.000000	116	1.000000	117	1.000000	118	1.000000	119	1.000000	120	1.000000

TABLE NAME: GA83F SETBACK: 0

AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX
1	.000171	2	.000171	3	.000171	4	.000171	5	.000171	6	.000140	7	.000118	8	.000104
9	.000097	10	.000096	11	.000104	12	.000113	13	.000122	14	.000131	15	.000140	16	.000149
17	.000159	18	.000168	19	.000179	20	.000189	21	.000201	22	.000212	23	.000225	24	.000239
25	.000253	26	.000268	27	.000284	28	.000302	29	.000320	30	.000342	31	.000364	32	.000388
33	.000414	34	.000443	35	.000476	36	.000502	37	.000536	38	.000573	39	.000617	40	.000665
41	.000716	42	.000775	43	.000842	44	.000919	45	.001010	46	.001117	47	.001237	48	.001366
49	.001505	50	.001647	51	.001793	52	.001949	53	.002120	54	.002315	55	.002541	56	.002803
57	.003103	58	.003443	59	.003821	60	.004241	61	.004703	62	.005210	63	.005769	64	.006386
65	.007064	66	.007817	67	.008681	68	.009702	69	.010922	70	.012385	71	.014128	72	.016160
73	.018481	74	.021092	75	.023992	76	.027185	77	.030672	78	.034459	79	.038549	80	.042945
81	.047655	82	.052691	83	.058071	84	.063807	85	.069918	86	.076570	87	.083870	88	.091935
89	.101354	90	.111750	91	.123076	92	.135630	93	.149577	94	.165103	95	.182419	96	.201757
97	.222044	98	.243899	99	.268185	100	.295187	101	.325225	102	.358897	103	.395843	104	.438360
105	.487816	106	.545886	107	.614309	108	.694885	109	.789474	110	1.000000	111	1.000000	112	1.000000
113	1.000000	114	1.000000	115	1.000000	116	1.000000	117	1.000000	118	1.000000	119	1.000000	120	1.000000

TABLE NAME: UP84 SETBACK: 0

AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX
1	.001453	2	.001453	3	.001453	4	.001453	5	.001453	6	.001453	7	.001453	8	.001453
9	.001453	10	.001453	11	.001453	12	.001453	13	.001453	14	.001453	15	.001453	16	.001437
17	.001414	18	.001385	19	.001351	20	.001311	21	.001267	22	.001219	23	.001167	24	.001149
25	.001129	26	.001107	27	.001083	28	.001058	29	.001083	30	.001111	31	.001141	32	.001173
33	.001208	34	.001297	35	.001398	36	.001513	37	.001643	38	.001792	39	.001948	40	.002125
41	.002327	42	.002556	43	.002818	44	.003095	45	.003410	46	.003769	47	.004180	48	.004635
49	.005103	50	.005616	51	.006196	52	.006853	53	.007543	54	.008278	55	.009033	56	.009875
57	.010814	58	.011863	59	.012952	60	.014162	61	.015509	62	.017010	63	.018685	64	.020517
65	.022562	66	.024847	67	.027232	68	.029634	69	.032073	70	.034743	71	.037667	72	.040871
73	.044504	74	.048504	75	.052913	76	.057775	77	.063142	78	.068628	79	.074648	80	.081256
81	.088518	82	.096218	83	.104310	84	.112816	85	.122079	86	.132174	87	.143179	88	.155147
89	.168208	90	.182461	91	.198030	92	.215035	93	.232983	94	.252545	95	.273878	96	.297152
97	.322553	98	.349505	99	.378865	100	.410875	101	.445768	102	.483830	103	.524301	104	.568365
105	.616382	106	.668696	107	.725745	108	.786495	109	.852659	110	.924666	111	1.000000	112	1.000000
113	1.000000	114	1.000000	115	1.000000	116	1.000000	117	1.000000	118	1.000000	119	1.000000	120	1.000000

POST RETIREMENT MORTALITY RATES

TABLE NAME: GATTQX SETBACK: 0

AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX	AGE	QX
1	.000000	2	.000000	3	.000000	4	.000000	5	.000257	6	.000229	7	.000210	8	.000199
9	.000195	10	.000195	11	.000201	12	.000209	13	.000216	14	.000224	15	.000233	16	.000251
17	.000251	18	.000261	19	.000272	20	.000283	21	.000297	22	.000310	23	.000325	24	.000341
25	.000359	26	.000378	27	.000398	28	.000422	29	.000446	30	.000475	31	.000505	32	.000538
33	.000574	34	.000614	35	.000668	36	.000705	37	.000751	38	.000806	39	.000873	40	.000952
41	.001043	42	.001151	43	.001278	44	.001426	45	.001597	46	.001794	47	.002014	48	.002252
49	.002509	50	.002778	51	.003059	52	.003352	53	.003659	54	.003988	55	.004336	56	.004711
57	.005121	58	.005581	59	.006103	60	.006700	61	.007383	62	.008172	63	.009080	64	.010127
65	.011328	66	.012698	67	.014242	68	.015966	69	.017869	70	.019958	71	.022241	72	.024765
73	.027581	74	.030740	75	.034295	76	.038286	77	.042715	78	.047569	79	.052837	80	.058508
81	.064570	82	.071006	83	.077798	84	.084927	85	.092377	86	.100370	87	.108870	88	.118004
89	.128107	90	.139029	91	.150645	92	.163045	93	.176292	94	.191504	95	.208253	96	.225097
97	.242999	98	.262351	99	.283670	100	.307186	101	.333156	102	.361975	103	.394472	104	.432808
105	.478674	106	.533916	107	.600414	108	.680076	109	.774845	110	1.000000	111	1.000000	112	1.000000
113	1.000000	114	1.000000	115	1.000000	116	1.000000	117	1.000000	118	1.000000	119	1.000000	120	1.000000

TABLE VALUES

SCREEN: DX LINE: 1 TABLE NAME: GA83M SETBACK: 0

AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE
16	.000333	17	.000343	18	.000353	19	.000365	20	.000377	21	.000392
22	.000408	23	.000424	24	.000444	25	.000464	26	.000488	27	.000513
28	.000542	29	.000572	30	.000607	31	.000645	32	.000687	33	.000734
34	.000785	35	.000860	36	.000907	37	.000966	38	.001039	39	.001128
40	.001238	41	.001370	42	.001527	43	.001715	44	.001932	45	.002183
46	.002471	47	.002790	48	.003138	49	.003513	50	.003909	51	.004324
52	.004755	53	.005200	54	.005660	55	.006131	56	.006618	57	.007139
58	.007719	59	.008384	60	.009158	61	.010064	62	.011133	63	.012391
64	.013868	65	.015592	66	.017579	67	.019804	68	.022229	69	.024817
70	.027530	71	.030354	72	.033370	73	.036680	74	.040388	75	.044597

SCREEN: DX LINE: 2 TABLE NAME: GA83F SETBACK: 0

AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE
16	.000149	17	.000159	18	.000168	19	.000179	20	.000189	21	.000201
22	.000212	23	.000225	24	.000239	25	.000253	26	.000268	27	.000284
28	.000302	29	.000320	30	.000342	31	.000364	32	.000388	33	.000414
34	.000443	35	.000476	36	.000502	37	.000536	38	.000573	39	.000617
40	.000665	41	.000716	42	.000775	43	.000842	44	.000919	45	.001010
46	.001117	47	.001237	48	.001366	49	.001505	50	.001647	51	.001793
52	.001949	53	.002120	54	.002315	55	.002541	56	.002803	57	.003103
58	.003443	59	.003821	60	.004241	61	.004703	62	.005210	63	.005769
64	.006386	65	.007064	66	.007817	67	.008681	68	.009702	69	.010922
70	.012385	71	.014128	72	.016160	73	.018481	74	.021092	75	.023992

SCREEN: DX LINE: 3 TABLE NAME: WTH SETBACK: 0

AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE
16	.000000	17	.000000	18	.000000	19	.000000	20	.180000	21	.174000
22	.169000	23	.163000	24	.158000	25	.152000	26	.146000	27	.141000
28	.135000	29	.129000	30	.124000	31	.118000	32	.113000	33	.107000
34	.101000	35	.096000	36	.090000	37	.084000	38	.079000	39	.073000
40	.068000	41	.062000	42	.058000	43	.067000	44	.070000	45	.072000
46	.072000	47	.067000	48	.055000	49	.043000	50	.036000	51	.032000
52	.030000	53	.030000	54	.030000	55	.000000	56	.000000	57	.000000
58	.000000	59	.000000	60	.000000	61	.000000	62	.000000	63	.000000
64	.000000	65	.000000	66	.000000	67	.000000	68	.000000	69	.000000
70	.000000	71	.000000	72	.000000	73	.000000	74	.000000	75	.000000

TABLE VALUES

SCREEN: DX		LINE: 4	TABLE NAME: NEW				SETBACK: 0				
AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE	AGE	RATE
16	.000000	17	.000000	18	.000000	19	.000000	20	.000000	21	.000000
22	.000000	23	.000000	24	.000000	25	.000000	26	.000000	27	.000000
28	.000000	29	.000000	30	.000000	31	.000000	32	.000000	33	.000000
34	.000000	35	.000000	36	.000000	37	.000000	38	.000000	39	.000000
40	.000000	41	.000000	42	.000000	43	.000000	44	.000000	45	.000000
46	.000000	47	.000000	48	.000000	49	.000000	50	.000000	51	.000000
52	.000000	53	.000000	54	.000000	55	.040000	56	.040000	57	.030000
58	.030000	59	.040000	60	.060000	61	.080000	62	.210000	63	.130000
64	.170000	65	.300000	66	.220000	67	.210000	68	.220000	69	.300000
70	1.000000	71	1.000000	72	1.000000	73	1.000000	74	1.000000	75	1.000000

MMVAL (10) CB95SILS ACT95 VALUATION YEAR 1995 INTEREST RATE 9.00 % DATE 4/17/95 TIME 13:44:44 PAGE 13

SHORT SAMPLE -- ACTIVE MEMBER

VALUATION RECORD

ESSN 1,839
 ESEX F
 LOC FWWC
 EBCSV 2.421
 EBIRTH REDACTED/60
 EHIRE 06/21/91
 PAY94 12,025.06
 PAY93 11,001.61
 ABENTY 307.14
 ABENLY 175.70
 ETY 2
 ELY 2
 ETEST 1
 HOURS94 1,712.89
 ENUMB 18

CALCULATED AGES (EXACT AND NEAREST)

CURRENT AGE 34.620 35
 AGE AT HIRE 31.092 31
 RETIREMENT AGE 70.037 70
 MEMBERSHIP AGE 31.092 31

GENERAL STATISTICS

SERVICE 3.53 MEMBERSHIP -23,571.29
 \$TOTAL1 0.00 \$TOTAL2 0.00
 \$TOTAL3 0.00 \$TOTAL4 0.00
 \$TOTAL5 0.00

ACCRUED LIABILITIES

PVDTH PVWTH PVRET
 PVTOT-1 PVTOT-2 PVTOT-3 PVTOT-4 PVTOT-5
 73 2,914 667
 3,654

CURRENT SERVICE COST

PVDTH PVWTH PVRET
 PVTOT-1 PVTOT-2 PVTOT-3 PVTOT-4 PVTOT-5
]
]
]

AGGR

ELIGIBILITY AGES

EL65 65
 EL70 70
 ELV 37
 ELER1 55
 ELSUB 47
 ELER2 55
 ELER3 50
 ELRET 55
 AGE55 55
 AGE20 20
 AGE30 30
 AGE40 40
 AGE50 50
 AGE60 60
 ELNOW 35
 EL10SVC 43
 EL20SVC 53
 EL30SVC 63
 \$AGE 35
 \$HIREAGE 31
 \$MEMBAGE 31
 \$SSNRA 67

TUC

33 1,320 302
 1,656 40 1,593 365
 1,998

MMVAL (10) CB95SILS ACT95 VALUATION YEAR 1995 INTEREST RATE 9.00 % DATE 4/17/95 TIME 13:44:44 PAGE 14

NUMBER OF ACTIVE RECORDS READ = 6463
NUMBER OF RECORDS DROPPED = 0
NUMBER OF SURVIVOR ACTIVES = 6369
NUMBER OF NEW ENTRANTS = 94
NUMBER OF LAYOFFS = 0
NUMBER OF TERMINATIONS PROCESSED = 0

WILLIAM M. MERCER VALUATION SYSTEM
ACTIVE EMPLOYEE RESULTS

AGGREGATE COST METHOD - PROJECTED PRESENT VALUES

TOTAL OF ALL EMPLOYEES	SURVIVORS	NEW ENTRANTS	LAYOFFS	TOTAL
	-----	-----	-----	-----
STATISTICS				
NUMBER OF EMPLOYEES	24,487	293	0	24,780
AVERAGE AGE	36.70	40.10	0.00	36.74
AVERAGE YEARS OF SERVICE	8.53	8.86	0.00	8.54
AVERAGE SALARY	23,757	16,089	0	23,666
TOTAL SALARY	581,736,575	4,714,172	0	586,450,747
TOTAL SALARY < LIMIT FOR VALUATION YEAR	578,644,822	4,714,172	0	583,358,994
EMPLOYEES UNDER FIXED RETIREMENT AGE				
NUMBER OF EMPLOYEES	24,387	288	0	24,675
TOTAL SALARY	580,675,284	4,688,271	0	585,363,555
TOTAL SALARY < LIMIT FOR VALUATION YEAR	577,583,532	4,688,271	0	582,271,802
PRESENT VALUES OF BENEFITS				
DEATH BENEFIT	(PVDTH) 8,293,162	33,693	0	8,326,855
VESTED WITHDRAWAL BENEFIT	(PVWTH) 17,994,970	131,968	0	18,126,938
RETIREMENT BENEFIT	(PVRET) 106,144,622	396,312	0	106,540,935
		132,432,755	0	132,994,728

WILLIAM M. MERCER VALUATION SYSTEM
ACTIVE EMPLOYEE RESULTS

TRADITIONAL UNIT CREDIT COST METHOD

TOTAL OF ALL EMPLOYEES		SURVIVORS	NEW ENTRANTS	LAYOFFS	TOTAL
		-----	-----	-----	-----
PRESENT VALUES OF BENEFITS - AL					
DEATH BENEFIT	(PVDTH)	7,962,719	31,073	0	7,993,792
VESTED WITHDRAWAL BENEFIT	(PVWTH)	13,560,853	98,794	0	13,659,647
RETIREMENT BENEFIT	(PVRET)	102,990,393	371,038	0	103,361,430
		124,513,965	500,905	0	125,014,870
PRESENT VALUES OF BENEFITS - NC					
DEATH BENEFIT	(PVDTH)	330,443	2,620	0	333,063
VESTED WITHDRAWAL BENEFIT	(PVWTH)	4,434,117	33,175	0	4,467,292
RETIREMENT BENEFIT	(PVRET)	3,154,230	25,274	0	3,179,504
		7,918,790	61,069	0	7,979,859